

## Special Issue

# Smart Radiotherapy Biomaterials for Cancer Therapy and Imaging

### Message from the Guest Editors

Cancer is the second cause of death worldwide in 2024, and one of the main reasons for its poor therapy is due to traditional treatment modalities such as chemotherapy, radiotherapy, and/or surgery. The associated toxicity related to the traditional treatment methods elicits many studies to be conducted preclinically evaluating the use of smart radiotherapy biomaterials in cancer treatment. The acclimation of smart biomaterials to the fluctuating physiological parameters and any outward tensions makes them compelling influencers on many aspects of homeopathic technology. Smart biomaterials can enhance promising treatments and boost the administration of long-lasting diseases, and they are applied in the fields of drug delivery systems, regenerative medicine, radiotherapy, medical gadgets, and immunotherapy. Preclinical studies have demonstrated many advantages, such as active targeting, long circulation, low immunogenicity, controlled drug release, and reduced toxicological effects in utilizing nanocarriers as targeted therapy for malignant tumors. Smart biomaterials can offer tissue-demonstrated precise modulation in the immunity of a cancer patient.

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### Guest Editors

Dr. Kai Ding  
Dr. Michele Moreau  
Dr. Debarghya China

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### Deadline for manuscript submissions

closed (10 December 2025)



## Pharmaceutics

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*Pharmaceutics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[pharmaceutics@mdpi.com](mailto:pharmaceutics@mdpi.com)

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Prof. Dr. Patrick J. Sinko

Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, William Levine Hall, Room 225C, 160 Frelinghuysen Road, Piscataway, NJ 08854-8020, USA

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